

IN THE CLAIMS:

Amendments to the Claims

Please cancel claims 1 and 2 without prejudice or disclaimer of the subject matter thereof, please amend claims 3, 5, 8-12 and 36-38, please rewrite claim 4, 6 and 7 in independent form, and please add the following new claim as shown below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 and 2 (canceled)

3. (currently amended) An image displaying method as set forth in claim 4 or ~~2~~ 4, wherein said respective regions can be switched into regions having an arbitrary size greater than or equal to said one block unit.

4. (currently amended) An image display method ~~as set forth in claim 1 or 2, which further comprises the steps of:~~ of an image displaying apparatus having a display portion consisted of a plurality of pixels comprising the steps of:

taking each of a predetermined number of pixels as one block unit;

forming one screen image of a plurality of one block units for displaying by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

discriminating a resolution level of said still image per one block unit; and

displaying the same information in an arbitrary number of the plurality of pixels in said one block unit for still image of low resolution level.

5. (currently amended) An image display method as set forth in claim 1 or 2, wherein said one screen image is consisted of frames in a number less than or equal to the predetermined number of pixels forming said one block unit, and said plurality of pixels are selected per frame.

6. (currently amended) An image display method ~~as set forth in claim 1 or 2, which comprises:~~ of an image displaying apparatus having a display portion consisted of a plurality of pixels comprising the steps of:

taking each of a predetermined number of pixels as one block unit;

forming one screen image of a plurality of one block units for displaying by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

arranging a plurality of scanning lines and a plurality of signal lines of the image displaying apparatus in a matrix fashion;

forming switches connected to intersections of respective ones of said scanning lines and respective ones of said signal lines;

dividing opposed electrodes opposing to pixel electrodes connected to said switches per a plurality of pixels; and

applying driving waveforms at different levels to said signal lines and said opposed electrodes depending upon the region for displaying the same information and the region for permitting display of different information.

7. (currently amended) An image display method ~~as set forth in claim 1 or 2,~~ of an image displaying apparatus having a display portion consisted of a plurality of pixels comprising the steps of:

taking each of a predetermined number of pixels as one block unit;

forming one screen image of a plurality of one block units for displaying by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

wherein said image display apparatus is a display device which has a lighting device on a back surface, a pair of transparent substrates having a polarizing panel and a liquid crystal layer disposed between said pair of transparent substrates for applying an electrical field to said liquid crystal layer for controlling an orienting condition of the liquid crystal layer for displaying the image, and

blinking illumination of said lighting device in synchronism with scanning when the region for displaying the same information on a plurality of pixels in one block unit during one scanning period.

8. (currently amended) An image displaying method of an image display system including an image displaying apparatus as set forth in claim ~~1 or 2~~ 4, having an image generating device for generating an image signal to be displayed on said image display apparatus, a display control device for controlling said image display apparatus on the basis of said image signal and an information storage device for holding information corresponding to said image signal, comprising the step of:

discriminating the region for displaying the same information and the region for displaying the different information by said image display apparatus.

9. (currently amended) An image displaying method of an image display system including an image displaying apparatus as set forth in claim ~~1~~24, having an image generating device for generating an image signal to be displayed on said image display apparatus, a display control device for controlling said image display apparatus on the basis of said image signal and an information storage device for holding information corresponding to said image signal, comprising the step of:

discriminating the region for displaying the same information and the region for displaying different information by said display control device.

10. (currently amended) An image displaying method of an image display system including an image displaying apparatus as set forth in claim ~~1~~24, having an image generating device for generating an image signal to be displayed on said image display apparatus, a display control device for controlling said image display apparatus on the basis of said image signal and an information storage device for holding information corresponding to said image signal, comprising the step of:

discriminating the region for displaying the same information and the region for displaying different information by said image generating device.

11. (currently amended) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line,

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on ~~said a~~ plurality of pixels in an other one of said one block units.

12. (currently amended) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line,

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on ~~said a~~ plurality of pixels in an other of said one block units,

wherein said dynamic image region is displayed on the basis of dynamic image data from said dynamic image/still image discriminating circuit, and

said still image region is displayed on the basis of still image data from said frame memory.

13. (previously presented) An image displaying apparatus as defined in claim 11 or 12, comprises

- a lighting device provided on a back surface;

- a pair of transparent substrates having a polarizing panel;

- a liquid crystal layer disposed between said pair of transparent substrates;

- one of said pair of transparent substrates having a plurality of scanning lines;

- first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix, a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines,

- a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches,

- one of said pair of transparent substrates having an opposed electrode to said pixel electrode, and

- an electric field being applied between said pixel electrode and said opposed electrode, and

- an image being displayed by controlling an orienting condition of said liquid crystal.

14. (previously presented) An image displaying apparatus as set forth in claim 11 or 12, wherein said display panel has said pixel electrode and an opposed electrode for applying a lateral electric field to the pixel portion of said pixel and said opposed electrode.

15. (previously presented) An image displaying apparatus as set forth in claim 11 or 12, wherein said display panel has the pixel electrode on one of said transparent substrates and the opposed electrode on the other transparent substrate in order to apply a vertical electric field to a pixel portion of said pixel.

16. (original) An image displaying apparatus as set forth in claim 13, wherein a color filter mounted on the pixel portion of said pixel has a stripe structure parallel to said scanning line.

17. (original) An image displaying apparatus as set forth in claim 13, wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

18. (previously presented) An image displaying apparatus as set forth in claim 11 or 12, which comprises

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines,

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix,

a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines,

a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches,

a pixel electrode connected to a plurality of said first switches or a plurality of said second switches,

an opposed electrode connected to a plurality of said first switches or a plurality of said second switches,

an electric field being applied between said pixel electrodes and said opposed electrode, and

an image being displayed by controlling an orienting condition of said liquid crystal.

19. (previously presented) An image displaying apparatus as set forth in claim 11 or 12, which comprises

a lighting device provided on a back surface;

a pair of transparent substrates having polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines,

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix,

a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines,

a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches,

said pixel electrode being connected to a plurality of said second switches,

an opposed electrode on one of said pair of transparent substrate,

an electric field being applied between said pixel electrodes and said opposed electrode, and

an image being displayed by controlling an orienting condition of said liquid crystal.

20. (previously presented) An image displaying apparatus as set forth in claim 18, wherein said display panel has one of said pixel electrode and said opposed electrode for applying a lateral electric field to a pixel portion of said pixel.

21. (previously presented) An image displaying apparatus as set forth in claim 19, wherein said display panel has one of said pixel electrode and said opposed electrode for applying a lateral electric field to a pixel portion of said pixel.

22. (previously presented) An image displaying apparatus as set forth in claim 18, wherein said display panel has one of said pixel electrode and said opposed electrode for applying a vertical electric field to a pixel portion of said pixel.

23. (previously presented) An image displaying apparatus as set forth in claim 19, wherein said display panel has one of said pixel electrode and said opposed electrode for applying a vertical electric field to a pixel portion of said pixel.

24. (original) An image displaying apparatus as set forth in claim 18, wherein a color filter mounted on the pixel portion of said pixel is a stripe structure parallel to said scanning line.

25. (original) An image displaying apparatus as set forth in claim 19, wherein a color filter mounted on the pixel portion of said pixel is a stripe structure parallel to said scanning line.

26. (previously presented) An image displaying apparatus as set forth in claim 18, wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

27 (previously presented) An image displaying apparatus as set forth in claim 19, wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

28. (previously presented) An image displaying apparatus as set forth in claim 11 or 12, which comprises

- a lighting device provided on a back surface;
- a pair of transparent substrates having a polarizing panel;
- a liquid crystal layer disposed between said pair of transparent substrates;
- one of said pair of transparent substrates having a plurality of said scanning lines,
 - first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix,
 - a plurality of switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines,
 - said pixel electrode being connected to a plurality of said switches,
 - an opposed electrode formed on one of said pair of transparent substrates and divided per a plurality of pixels,
 - an electric field being applied between said pixel electrode and said opposed electrode, and

an image being displayed by controlling an orienting condition of said liquid crystal.

29. (previously presented) An image displaying apparatus as set forth in claim 28, wherein said display panel has said pixel electrode for applying a lateral electric field to the pixel portion of said pixel and the opposed electrode.

30. (previously presented) An image displaying apparatus as set forth in claim 28, wherein said display panel has said pixel electrode provided on one of said pair of transparent substrates for applying a vertical electric field to the pixel portion of said pixel and the opposed electrode provided on the other transparent substrate.

31. (original) An image displaying apparatus as set forth in claim 28, wherein a color filter mounted on the pixel portion of said pixel has a stripe structure parallel to said scanning line.

32. (original) An image displaying apparatus as set forth in claim 28, wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

33. (previously presented) An image displaying apparatus as set forth in claim 28, wherein a selection signal level to be applied to said scanning line controlling condition of said switch and a selection signal level to be applied to said opposed electrode are selection signal levels having at least two values, and

a level shifter is provided for varying level of an image data signal to be applied to said signal line adapting to the selection signal level of said opposed electrode.

34. (previously presented) An image displaying apparatus as set forth in claim 33, wherein one block unit is formed with predetermined number of pixels, said scanning line selection signal level and said opposed electrode signal level for the same display on a plurality of pixels in said one block unit in one scanning period and said scanning line selection signal level and said opposed electrode signal level for selecting arbitrary pixel in said one block unit, and switching means is provided for switching the region for the same display on a plurality of pixels in said one block unit in one scanning period and the region permitting different display on a plurality of pixels in one block unit for a plurality times of scan.

35. (original) An image display apparatus as set forth in claim 33, wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

36. (currently amended) An image displaying system comprising:
an image displaying apparatus having a display panel;
an image generating device generating an image signal displaying on said display panel;
a display control device controlling said image displaying apparatus on the basis of said image signal; and
a frame memory for holding information corresponding to said image signal connected to said display control device,
said image displaying apparatus including a dynamic image and a still image discriminating means for discriminating between the dynamic image and the still image,

said display panel taking a predetermined number of pixels among a plurality of pixels arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on ~~said a~~ plurality of pixels in an other of said one block units.

37. (currently amended) An image displaying system comprising:
an image displaying apparatus having a display panel;
an image generating device generating an image signal displaying on said display panel;

a display control device controlling said image displaying apparatus on the basis of said image signal; and

a frame memory for holding information corresponding to said image signal connected to said display control device,

said display control device including a dynamic image and a still image discriminating means for discriminating between .the dynamic image and the still image,

said display panel taking a predetermined number of pixels among a plurality of pixels arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on ~~said a~~ plurality of pixels in an other of said one block units.

38. (currently amended) An image displaying system comprising:
an image displaying apparatus having a display panel;
an image generating device generating an image signal displaying on said display panel;
a display control device controlling said image displaying apparatus on the basis of said image signal; and
a frame memory for holding information corresponding to said image signal connected to said display control device,
said image generating device including a dynamic image and a still image discriminating means for discriminating between the dynamic image and the still image,
said display panel taking a predetermined number of pixels among a plurality of pixels arranged in matrix fashion as one block unit, and one screen image of a plurality of said one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on ~~said a~~ plurality of pixels in an other of said one block units.

39. (new) An image displaying method as set forth in claim 4, 6 or 7, further comprising the step of discriminating an image to be displayed in each one block unit between the dynamic image and a still image.